

ADSL2+ 4 Port Switch Bridge/Router

- ✓ *Integrated Phone Filter*
- ✓ *Auto-connect feature will automatically detect the first usable PVC and automatically detect PPPoE, PPPoA, and Bridge Protocol(with DHCP Server available)*
- ✓ *Configurable as either a Bridge or Router*
- ✓ *Filter traffic based on Destination or Source IP Address and MAC Addresses*
- ✓ *Traffic Class Rules based on Protocol, Source IP, Source Port, Destination IP, Destination Port, 802.1p*
- ✓ *Single Click DSL test - Tests Ethernet connection and ADSL Synchronization along with ATM OAM F5 segment pings and end-to-end pings.*



The 65xx ADSL2+ family of endpoints deliver the required performance for multimedia applications at very competitive price points. The 6500 ADSL2+ endpoints, in compact form factor, have been successfully used for residential, business, in-building deployments such as hotel/motel, temporary housing, and dormitory-campus installations for high-speed internet access (HSIA) and video-on-demand services.

The Zhone 6500 ADSL2+ endpoints are easily user-installed. The embedded web-based user interface is designed to simplify ADSL deployment. All products provide an integrated filter and an Ethernet connection that is auto-sensing, eliminating the worry about connection cable type (straight-through vs crossover).

DELT or Dual End Loop Test, is a feature that is present the 6500 Family of ADSL2+ CPEs. DELT is primarily used for reactive tests on a loop after a modem has been deployed—either to help troubleshoot a line or to capture a baseline of loop characteristics at the time of installation. Because DELT is a dual-ended test, it requires equipment that supports the DELT feature at both ends of the copper loop. While this prevents DELT from being used on loops where no CPE has yet been deployed, DELT in turn offers a deeper set of loop tests, and can provide very valuable information on the condition of a copper loop.

Default settings make for a quick and easy installation that doesn't require any configuration.

The modem, when operating in router mode, support DHCP Server/Client, NAT, as well as RIP, dynamic routing, port forwarding, and static routing. For security, firewall functions including PAP/CHAP authentication and IP filtering are supported.

Technical Specifications

Dimensions

- 1.25" (H) x 8.25" (W) x 4.75" (D)
- 31.75 mm (H) x 209.55 mm (W) x 102.65 mm (D)

Weight

- 0.5 lbs (650g)

Power

- Input: 120-240 VAC 50/60 Hz
- Output: 12VDC 700mA

Interfaces

- 1 x RJ-11 ADSL LINE
- 1 x RJ-11 Phone Filter
- 4 x RJ-45 10/100Auto MDI/MDI-X RJ-45 interfaces
- 1 x Reset button
- 1 x ON/OFF Power Switch

Standards Support

- ANSI T1.413 (Full Rate ADSL)
- ADSL compliance/ITU-T G.992.1 (DMT)
- ITU G.992.3 (ADSL2)
- ITU G.992.5 (ADSL2+)
- ITU G.997.1
- Annex L
- Annex M
- SRA (Seamless Rate Adaptation)
- Rate adaptation
- ADSL physical connection ATM AAL5 (ATM Adaptation Layer type 5)
- Support multi-protocol over AAL5 (RFC2684)
- PPP over ATM AAL5 (RFC2364)
- PPPoE (RFC 2516)
- MAC encapsulation routing
- Support VC-based and LLC-based multiplexing
- Support up to 8 PVCs
- I.610 F4/F5 OAMATM Support
 - ITU-T I.610 F4/F5 OAM Send and Receive/Loop back
 - Support up to 8 PVC's
 - RFC 1483/2684 (Bridged/Routed Ethernet over ATM)
- Routing/Bridge Support
 - Transparent Bridge Support
 - DHCP Server/Relay/Client
 - DNS Relay Agent
 - Dynamic DNS Support
 - DMZ support
 - Static Routing
 - RIPv1 and RIPv2
 - Policy based QoS (TOS, 802.1p, Source/Destination IP Address, Source/Destination Port, Protocol)
 - IGMP v1/v2
- PPP Support
 - PAP/CHAP authentication
 - PPPoA
 - PPPoE
- Security
 - NAT for Basic Firewall support
 - Ingress and Egress Packet Filtering
 - Parental Control
 - MAC Filtering
 - Stateful Packet Inspection
- DELT support

Protocol Support

- VLAN/QoS
 - Support 802.1Q port/tag based VLAN
 - Support 802.1P priority bit
 - Support flexible traffic classification by LAN, Eth type source IP
 - Support 4 priority queue w/strict priority scheme
 - Per VLAN IPPR (IP Policy Route)
 - Per VLAN PPPoE
 - Application bind with dedicated PVC
 - IP Layer QoS (media bandwidth management) for 3-play
 - TOS/DiffServ
 - VLAN on Ethernet WAN
 - Four 10/100Base-T Gigabit Ethernet port in RJ-45, comply with 802.3/802.3u
 - VLAN to Port mapping

Management

- Web
- CLI
- SSH (Secure Shell Function)
- Remote management for Web/Telnet/FTP
- Access control for remote management
- Firmware upgrade via Web/FTP/SCP/SFTP
- Text based configuration
- DSL Forum TR-069
- DSL Forum TR-064
- 802.1ag (connectivity Fault management)

Regulatory Compliance

- FCC Part 15, Part 68
- UL
- CE
- CS-003
- RoHS compliant

Operating Requirements

- Operating Temperature: 0°C ~ 40°C
- Operating Humidity: 20% ~ 85% RH(non-condensing)
- Storage Temperature: -20°C ~ 60°C
- Storage Humidity: 20% ~ 95% RH(non-condensing)

Ordering Information

6512-A1-NA	Single Port ADSL2+ CPE Router (Broadcom), 10/100BaseT, North America power adapter
6512-A1-UK	Single Port ADSL2+ CPE Router (Broadcom), 10/100BaseT, UK power adapter
6512-A1-EU	Single Port ADSL2+ CPE Router (Broadcom), 10/100BaseT, Euro power adapter
651x-F1-101	Security Brackets for 6512/6518/6519, Qty 1

Zhone Technologies, Inc.

7195 Oakport Street
Oakland, CA 94621

1 510.777.7000

www.zhone.com

For more information about Zhone and its products, please visit the Zhone Web site at www.zhone.com or e-mail info@zhone.com

Zhone, the Zhone logo, and all Zhone product names are trademarks of Zhone Technologies, Inc. Other brand and product names are trademarks of their respective holders. Specifications, products, and/or product names are all subject to change without notice. Copyright 2012 Zhone Technologies, Inc. All rights reserved.

